

Data Sheet

Barricade™ g

SMC2804WBR

2.4 GHz 54 Mbps Wireless Cable/DSL Broadband Router



The Barricade™ g 2.4GHz 54Mbps Wireless Cable/DSL Broadband Router (SMC2804WBR) is the perfect networking solution for any home and business user that is looking for a simple, all-in-one network product. This platform independent multi-functional router combines a 4-port 10/100 Mbps dual-speed switch with Automatic MDI-MDIX feature, a high speed 54Mbps wireless access point, Stateful Packet Inspection (SPI) firewall security, network management, and Virtual Private Network (VPN) passthrough support into one convenient device. The new Barricade g offers a high data rate that is up to 5 times faster than the widely used 802.11b wireless LAN and is backward compatible with existing 802.11b network devices.

The integrated Stateful Packet Inspection (SPI) firewall provides protection against hacker invasions, such as Denial of Service (DoS) attacks by analyzing individual data packets, to ensure that only authorized packets are allowed access to the network. To control network access, parents, or business owners can block certain websites by entering either a URL address or just a keyword of the website. In addition, if someone attempts to hack into your network the Barricade g can alert you via email.

The Barricade g provides a 10/100 Mbps WAN port for high-speed integration into your network. Supporting NAT, the Barricade g can provide simultaneous Internet access for up to 253 PCs using a single purchased IP address. To manage these connections, the Barricade g has a built-in DHCP server to auto-assign IP addresses to devices on your network. By using the web-based management interface, you can configure this router to handle IP routing and port forwarding through the Virtual Server option. For added management, the router also has a full-featured Access Control option. This integrated feature allows you to filter traffic through your network based on IP address or MAC Address.

For wireless connectivity, the Barricade g supports up to 54Mbps high-speed wireless connection at data rates of 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48 and 54 Mbps. To secure this wireless connection, the Barricade g supports 802.1x for authentication, Wi-Fi Protected Access (WPA)*, MAC address filtering and 64/128-bit Wired Equivalent Privacy (WEP). This integrated wireless router allows you to connect to your network at distances up to 350m**. Furthermore, the Barricade g has two detachable antennas that can be replaced with SMC high gain antennas for added performance and coverage.

SMC's Barricade g 2.4GHz 54Mbps Wireless Cable/DSL Broadband Router offers a high-speed, cost-effective and comprehensive networking solution for PC, MAC, or Linux users.

Features and Benefits

High Performance & Functionality

- EZ 3-Click Installation Wizard
- User-friendly Web-based management
- Connects to a Cable/xDSL modem
- Simultaneous Internet access for up to 253 PCs on the LAN using only one IP address
- Built-in Stateful Packet Inspection (SPI) firewall security
- 4-port Auto-MDI-MDIX 10/100 Mbps switch versatility plus 1 10/100 Mbps port for WAN connection
- 2 Detachable Antennas
- High Speed wireless operation at 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54 Mbps and has an operating range of up to 350m**
- Robust security features include 802.1x for authentication, Wi-Fi Protected Access (WPA)*, 64-bit/128-bit WEP encryption, and MAC address filtering
- URL blocking to limit access to certain websites by entering a full URL address or a keyword of the website
- Access control based on IP address filtering, MAC address filtering, date and time of the day.
- Hacker prevention and logging capability with email alerts prevent common hacker attacks
- Syslog Daemon supports sending Syslog information to a Server running any Syslog Daemon

Compatibility

- Platform independent - works with PC, MAC or Linux
- IEEE 802.3, 802.3u, and 802.11g draft and 802.11b

* Coming soon

** Distance performance may be effected by variables such as barrier composition and local environment interference)

Product	Model No	Description
Barricade g	SMC2804WBR	2.4GHz 54 Mbps Wireless Cable/DSL Broadband Router

www.smc-europe.com www.smc.com

SMC®
Networks

Specifications

Standards

- IEEE802.3, 802.3u, 802.11g draft, 802.11b Compliant

Data Rate

- 1/2/5.5/6/9/11/12/18/24/36/ 48/54 Mbps

Security

- 64/128-bit WEP
- Wi-Fi Protected Access*
- 802.1x

Configuration and Mangement

- Web Configuration and firmware upgradeable

Internet Sharing Methods

- Static IP
- Dynamic IP
- PPPoE
- PPTP WAN
- Big Pond

Protocols

- TCP/IP, PPTP/L2TP/IPSec Passthrough (VPN)
- DNS
- SNTP
- NAT
- DHCP
- HTTP
- HTML
- PPP Internet Control Protocol
- PPP Authentication Protocol
- Point-to-Point Protocol

LED Indicators

- Power
- WLAN
- LAN
- WAN

Interface

- 4 x 10/100 Base-T RJ-45 LAN Port with Automatic MDI/MDIX feature
- 1 x 10/100 Base-T RJ-45 Broadband WAN port

Wireless RF module

Frequency Band

- 802.11g Radio: 2.4GHz
- 802.11b Radio: 2.4GHz
- USA - FCC
- 2412~2462MHz (Ch1~Ch11)
- Canada - IC
- 2412~2462MHz (Ch1~Ch11)
- Europe - ETSI
- 2412~2472MHz (Ch1~Ch13)
- Spain
- 2457~2462MHz (Ch10~Ch11)
- France
- 2457~2472MHz (Ch10~Ch13)
- Japan - STD-T66/STD-33
- 2412~2484MHz (Ch1~Ch14)

Modulation Type

- OFDM, CCK

Operating Channels

IEEE 802.11b compliant:

- 11 channels (US, Canada)
- 13 channels (ETSI)
- 2 Channels (Spain)
- 4 Channels (France)
- 14 channels (Japan)

IEEE 802.11g compliant:

- 13 channels (US, Canada, Europe, Japan)

RF Output Power

Modulation Rate-Output Power

	(dBm)
• 802.11b - 1Mbps	16
• 802.11b - 2Mbps	16
• 802.11b - 5.5Mbps	16
• 802.11b - 11Mbps	16

Modulation Rate-Output Power

	(dBm)
• 802.11g - 6Mbps	15
• 802.11g - 9Mbps	15
• 802.11g - 12Mbps	15
• 802.11g - 18Mbps	15
• 802.11g - 24Mbps	15
• 802.11g - 36Mbps	15
• 802.11g - 48Mbps	15
• 802.11g - 54Mbps	15

Sensitivity

Modulation Rate-Receiver

	Sensitivity (dBm)
• 802.11b - 1Mbps	-90
• 802.11b - 2Mbps	-88
• 802.11b - 5.5Mbps	-85
• 802.11b - 11Mbps	-84

Modulation Rate-Receiver

	Sensitivity Typical (dBm)
• 802.11g - 6Mbps	-88
• 802.11g - 9Mbps	-87
• 802.11g - 12Mbps	-84
• 802.11g - 18Mbps	-82
• 802.11g - 24Mbps	-79
• 802.11g - 36Mbps	-75
• 802.11g - 48Mbps	-68
• 802.11g - 54Mbps	-68

Antenna Type

- Two Detachable Antennas with Reversed SMA Connectors

Antenna Gain

- 2 dBi

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Power

- 9V, 1000 mA

Regulation Compliance

- FCC Part 15 Class B, Sec. 15.247 and 15.109
- ETS 300 328, ETS 300 826, EN60950 and CE-Mark
- VCCI/JATE
- CSA/TUV
- Industry Canada
- DGT
- Telec (Japan)

Operating Temperature

- 0° ~ 55°C ambient

Storage Temperature

- -20°C ~ 75°C ambient

Humidity

- 15%~95%

Size

- 22.0 x 13.5 x 2.5 cm

Weight

- 680g

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